

ABSTRACT

This novel graft system comprises a material, device, and method of making. The material is a solidifiable adhesive fluid, suitable to form an extravascular solid bond. The device is selected from ice, laser, balloon, and needle. The method is making an opening on a vessel wall. Blood flow is used to induce vessel cells to spread out from the opening so that a graft is produced in situ. The best embodiment is a reversed bypass from an artery to a vein network. This system is also useful for repairing tubular gland, ureter, fallopian tube, and lymphduct.

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14 Claims, 7 Drawing Sheets